

## Amendments to the Claims

Claims 1-34 (Cancelled).

Claim 35 (Currently amended): A process for ~~separating the isomers~~ HFC-227ea and HFC-227ea purifying CF<sub>3</sub>CFHCF<sub>3</sub> comprising: ~~providing~~ distilling a mixture ~~containing~~ comprising HFC-227ea CF<sub>3</sub>CFHCF<sub>3</sub>, HFC-227ea CF<sub>3</sub>CF<sub>2</sub>CF<sub>2</sub>H, and at least one chlorofluorocarbon; and ~~separating by distillation~~ the mixture to obtain ~~essentially~~ pure HFC-227ea isomer to form a solution comprising CF<sub>3</sub>CFHCF<sub>3</sub>.

Claim 36 (Currently amended): The process of claim 35 wherein the at least one chlorofluorocarbon comprises C<sub>3</sub>ClF<sub>7</sub>.

Claim 37 (Currently amended): The process of claim 35 wherein the mixture comprises a mole ratio of the chlorofluorocarbon to HFC-227ea ratio is the CF<sub>3</sub>CFHCF<sub>3</sub> of from about 0.1 to about 10.

Claim 38 (Currently amended): The process of claim 37 wherein the mixture comprises a mole ratio of the chlorofluorocarbon to HFC-227ea ratio is the CF<sub>3</sub>CFHCF<sub>3</sub> of at least about 1:2.

Claims 39-71 (Cancelled).

Claim 72 (Currently amended): A process of separating C-3 for purifying chlorofluorinated compounds from a halogenation reaction product comprising:

providing a halogenation reaction product comprising HCl, HF, and a C-3 chlorofluorinated compounds compound, HCl and HF;

~~adjusting the temperature of the halogenation reaction product to a sufficient temperature to separate phase separating~~ the reaction product into ~~at least~~ three phases, including an upper phases; a gas phase containing comprising the HCl, a top liquid phase containing comprising the HF, and a bottom liquid phase containing ~~essentially acid free~~ comprising the C-3 chlorofluorinated compounds compound; and

removing the bottom liquid phase to obtain ~~essentially pure~~ form a solution comprising the C-3 chlorofluorinated compounds compound.

Claim 73 (Currently amended): The process of claim 72 wherein the C-3 chlorofluorinated compounds comprise compound comprises CFC-217ba C<sub>3</sub>F<sub>7</sub>Cl.

Claim 74 (Currently amended): The process of claim 72 wherein the phase separating comprises altering the reaction product temperature to a temperature is of from about 20°C to about 75°C.

Claim 75 (Original): The process of claim 74 wherein the temperature is about 25°C.

Claims 76-88 (Cancelled).